ORDER NO. SD7907-1589

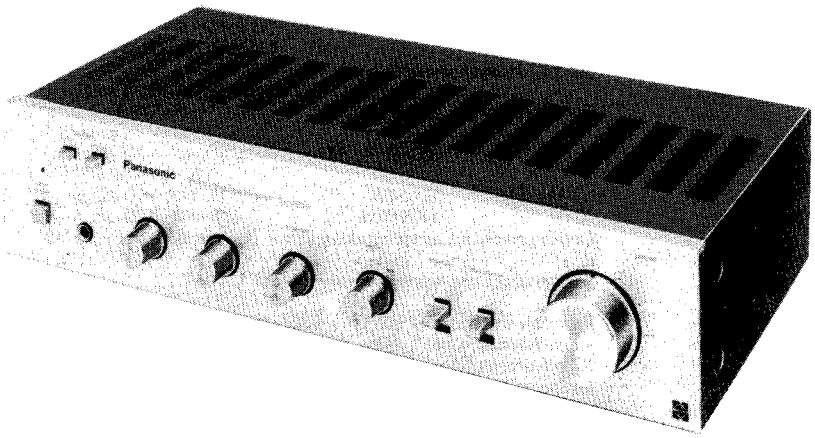
# Service Manual

SU-2600

Stereo Integrated Amplifier

# SU-2600

(EG), (XE), (EB)



* The model SU-2600 (EG) is available in Scandinavia and European.
* The model SU-2600 (XE) is available in United Kingdom.
* The model SU-2600 (EB) is available in Belgium.

## TECHNICAL SPECIFICATIONS

Specifications are subject to change without notice for further improvement.

### [DIN 45 500]

### AMPLIFIER SECTION

| | |
|---|---|
| **20 Hz ~ 20 kHz continuous power output** | |
| **both channels driven** | 2 x 25 W (8Ω) |
| **40 Hz ~ 16 kHz continuous power output** | |
| **both channels driven** | 2 x 25 W (4Ω), 2 x 25 W (8Ω) |
| **1 kHz continuous power output** | |
| **both channels driven** | 2 x 27 W (4Ω), 2 x 27 W (8Ω) |
| **Power bandwidth** | |
| **both channels driven, −3 dB** | 5 Hz ~ 50 kHz (4Ω) |
| | 5 Hz ~ 60 kHz (8Ω) |
| **Total harmonic distortion** | |
| **rated power at 20 Hz ~ 20 kHz** | 0.08% (8Ω) |
| **rated power at 40 Hz ~ 16 kHz** | 0.15% (4Ω), 0.08% (8Ω) |
| **rated power at 1 kHz** | 0.15% (4Ω), 0.08% (8Ω) |
| **half power at 20 Hz ~ 20 kHz** | 0.03% (8Ω) |
| **half power at 1 kHz** | 0.03% (8Ω) |
| **−26 dB power at 1 kHz** | 0.15% (4Ω) |
| **50mW power at 1 kHz** | 0.2% (4Ω) |
| **Intermodulation distortion** | |
| **rated power at 250 Hz: 8 kHz = 4:1, 4Ω** | 0.15% |
| **rated power at 60 Hz: 7 kHz = 4:1, SMPTE, 8Ω** | 0.08% |
| **Residual hum & noise** | 0.6 mV |
| **Damping factor** | 15 (4Ω), 30 (8Ω) |
| **Input sensitivity and impedance** | |
| **PHONO** | 2.5 mV/47 kΩ |
| **TUNER, AUX** | 150 mV/27 kΩ |
| **TAPE 1, PLAYBACK** | 180 mV/33 kΩ |
| **PHONO maximum input voltage (1 kHz, RMS)** | 100 mV |
| **S/N** | |
| **rated power at 4Ω PHONO** | 74 dB (IHF, A: 80 dB) |
| **TUNER, AUX, TAPE** | 83 dB (IHF, A: 97 dB) |
| **−26 dB power at 4Ω PHONO** | 62 dB |
| **TUNER, AUX, TAPE** | 62 dB |
| **50 mW power at 4Ω PHONO** | 62 dB |
| **TUNER, AUX, TAPE** | 62 dB |
| **Frequency response PHONO** | RIAA standard curve |
| | 30 Hz ~ 15 kHz, ±1.0 dB |
| **TUNER, AUX, TAPE** | 20 Hz ~ 20 kHz, ±0.8 dB |
| | 10 Hz ~ 50 kHz, −1 dB |
| **Tone controls BASS** | 50 Hz, +10 dB ~ −10 dB |
| **TREBLE** | 20 kHz, +10 dB ~ −10 dB |
| **Loudness switch (volume at −30 dB)** | 50 Hz, +9 dB |
| **Output voltage and impedance REC OUT** | 150 mV |
| **REC/PLAY** | 30 mV/82 kΩ |
| **Channel balance (250 Hz ~ 6300 Hz), AUX** | ±1.0 dB |
| **Channel separation at 1 kHz, AUX** | 55 dB |
| **Headphones output level and impedance** | 330 mV/330Ω |
| **Load impedance MAIN or REMOTE** | 4 ~ 16Ω |
| **MAIN + REMOTE** | 8 ~ 16Ω |

### GENERAL

| | |
|---|---|
| **Power consumption** | 300 W |
| **Power supply (50 Hz/60 Hz)** | 110V/120V/220V/240V |
| **Dimensions (W x H x D)** | 430 x 97 x 240 mm |
| | (16-29/32"x3-13/16"x9-7/16") |
| **Weight** | 5.0 kg (11.0 lb.) |

## ■ CONTENTS


LOCATION OF CONTROLS . . . . . 3
NOTE . . . . . 4
HOW TO REMOVE THE CABINET, BOTTOM BOARD AND FRONT PANEL . . . . . 4
BLOCK DIAGRAM . . . . . 5
BEFORE STARTING THE REPAIRING . . . . . 5
HOW TO REMOVE THE POWER IC . . . . . 5
REPLACEMENT PARTS LIST (Electric Parts) . . . . . 6
PRINTED CIRCUIT BOARD WIRING VIEW . . . . . 7~8
BLOCK DIAGRAM OF INTEGRATED CIRCUITS . . . . . 9
SCHEMATIC DIAGRAM . . . . . 9~11
EXPLODED VIEWS . . . . . 12~13
REPLACEMENT PARTS LIST (Cabinet and Chassis Parts) . . . . 14
PACKINGS AND ACCESSORY . . . . . 14



National Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

## TECHNISCHE DATEN

Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

### [DIN 45 500]

### VERSTÄRKERTEIL

**Dauertonleistung bei 20 Hz ~ 20 kHz**
**beide Kanäle zusammen ausgesteuert** 2 x 25 W (8Ω)
**Dauertonleistung bei 40 Hz ~ 16 kHz**
**beide Kanäle zusammen ausgesteuert** 2 x 25 W (4Ω)
2 x 25 W (8Ω)
**Dauertonleistung bei 1 kHz**
**beide Kanäle zusammen ausgesteuert**
2 x 27 W (4Ω), 2 x 27 W (8Ω)
**Leistungsbandbreite**
**beide Kanäle zusammen ausgesteuert, –3 dB**
5 Hz ~ 50 kHz (4Ω)
5 Hz ~ 60 kHz (8Ω)
**Harmonische Verzerrungen**
**Nennausgangsleistung bei 20 Hz ~ 20 kHz** 0,08% (8Ω)
**Nennausgangsleistung bei 40 Hz ~ 16 kHz**
0,15% (4Ω), 0,08% (8Ω)
**Nennausgangsleistung bei 1 kHz** 0,15% (4Ω), 0,08% (8Ω)
**Halber Ausgangsleistung bei 20 Hz ~ 20 kHz** 0,03% (8Ω)
**Halber Ausgangsleistung bei 1 kHz** 0,03% (8Ω)
**–26 dB Ausgangsleistung bei 1 kHz** 0,15% (4Ω)
**50 mW Ausgangsleistung bei 1 kHz** 0,2% (4Ω)
**Intermodulationsverzerrung**
**Nennausgangsleistung bei 250 Hz: 8 kHz = 4:1, 4Ω** 0,15%
**Nennausgangsleistung bei 60 Hz: 7 kHz = 4:1, SMPTE 8Ω**
0,08%
**Brummen & Rauschen** 0,6 mV
**Dämpfungsfaktor** 15 (4Ω), 30 (8Ω)
**Eingangsempfindlichkeit & Impedanz**
**PHONO** 2,5 mV/47 kΩ
**TUNER, AUX** 150 mV/27 kΩ
**TAPE 1, PLAYBACK** 180 mV/33 kΩ
**PHONO Maximale Eingangsspannungen (1 kHz RMS)** 100 mV
**Fremdspannungsabstand**
**Nennausgangsleistung bei 4Ω**
**PHONO** 74 dB (IHF, A: 80 dB)
**TUNER, AUX, TAPE** 83 dB (IHF, A: 97 dB)
**–26 dB Ausgangsleistung bei 4Ω PHONO** 62 dB
**TUNER, AUX, TAPE** 62 dB
**50 mW Ausgangsleistung bei 4Ω PHONO** 62 dB
**TUNER, AUX, TAPE** 62 dB
**Frequenzgang PHONO** RIAA Standardkurve
30 Hz ~ 15 kHz, ±1,0 dB
**TUNER, AUX, TAPE** 20 Hz ~ 20 kHz, ±0,8 dB
10 Hz ~ 50 kHz, –1 dB
**Klangregler BÄSSE** 50 Hz, +10 dB ~ –10 dB
**HÖHEN** 20 kHz, +10 dB ~ –10 dB
**Gehörgerechte Lautstärkekorrektur (Lautstärke bei –30 dB)**
50 Hz, +9 dB
**Ausgangsspannungen & Impedanz REC OUT** 150 mV
**REC/PLAY** 30 mV/82 kΩ
**Kanalabweichung (250 Hz ~ 6300 Hz), AUX** ±1,0 dB
**Kanaltrennung bei 1 kHz, AUX** 55 dB
**Kopfhörerpegel und Ausgangsimpedanz** 330 mV/330Ω
**Lautsprecher-Ausgangsimpedanz**
**MAIN oder REMOTE** 4 ~ 16Ω
**MAIN und REMOTE** 8 ~ 16Ω

### ALLGEMEINE DATEN

**Leistungsaufnahme** 300 W
**Netzspannung umschaltbar (50 Hz/60 Hz)**
110V/120V/220V/240V
**Abmessungen (B x H x T)** 430 x 97 x 240 mm
**Gewicht** 5,0 kg

## CARACTERISTIQUES TECHIQUES

Sujet à changement sans préaris.

### [DIN 45 500]

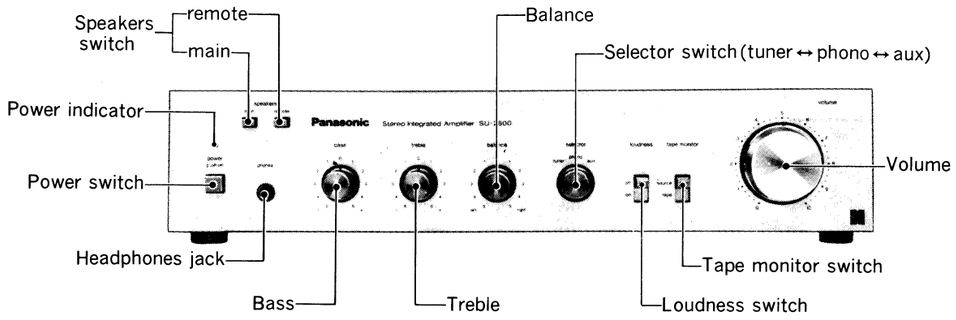
### PARTIE AMPLIFICATEUR

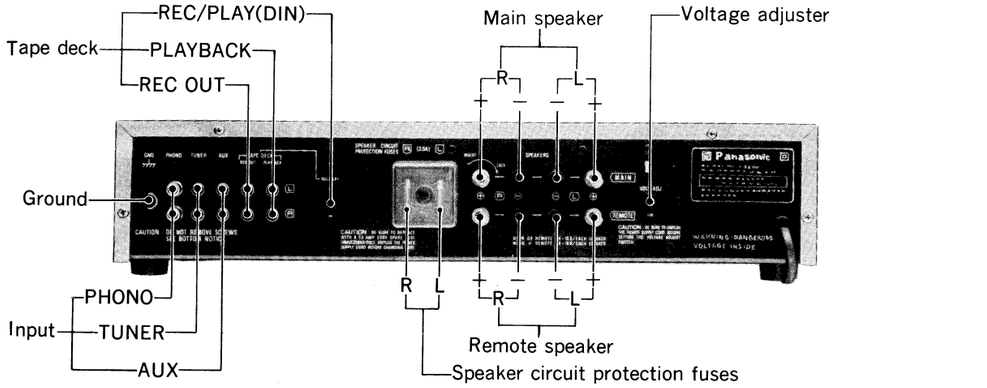
**Puissance de sortie continue de 20 Hz ~ 20 kHz**
**les deux canaux en circuit avec distorsion** 2 x 25 W (8Ω)
**Puissance de sortie continue de 40 Hz ~ 16 kHz**
**les deux canaux en circuit avec distorsion** 2 x 25 W (4Ω)
2 x 25 W (8Ω)
**Puissance de sortie continue à 1 kHz**
**les deux canaux en circuit avec distorsion** 2 x 27 W (4Ω)
2 x 27 W (8Ω)
**Largeur de bande de puissance**
**pour l'ensemble des canaux excités, –3 dB**
5 Hz ~ 50 kHz (4Ω)
5 Hz ~ 60 kHz (8Ω)
**Distorsion harmonique totale**
**pour la puissance mesurée à 20 Hz ~ 20 kHz** 0,08% (8Ω)
**pour la puissance mesurée à 40 Hz ~ 16 kHz**
0,15% (4Ω), 0,08% (8Ω)
**pour la puissance mesurée à 1 kHz**
0,15% (4Ω), 0,08% (8Ω)
**pour la demi-puissance mesurée à 20 Hz ~ 20 kHz**
0,03% (8Ω)
**pour la demi-puissance mesurée à 1 kHz** 0,03% (8Ω)
**pour une puissance mesurée de –26 dB, 1 kHz** 0,15% (4Ω)
**pour une puissance mesurée de 50 mW, 1 kHz** 0,2% (4Ω)
**Distorsion d'intermodulation**
**pour la puissance mesurée à 250 Hz: 8 kHz = 4:1, 4Ω** 0,15%
**pour la puissance mesurée à 60 Hz: 7 kHz = 4:1, 8Ω** 0,08%
**Tension résiduelle de bruit** 0,6 mV
**Facteur d'amortissement** 15 (4Ω), 30 (8Ω)
**Sensibilité & impédance d'entrée**
**PHONO** 2,5 mV/47 kΩ
**TUNER, AUX** 150 mV/27 kΩ
**TAPE 1, PLAYBACK** 180 mV/33 kΩ
**Voltage d'entrée maximum (PHONO, 1 kHz, RMS)** 100 mV
**Repport signal/bruit**
**pour la puissance nominale, 4Ω**
**PHONO** 74 dB (IHF, A: 80 dB)
**TUNER, AUX, TAPE** 83 dB (IHF, A: 97 dB)
**pour une sortie de –26 dB, 4Ω PHONO** 62 dB
**TUNER, AUX, TAPE** 62 dB
**pour une sortie de 50 mW, 4Ω PHONO** 62 dB
**TUNER, AUX, TAPE** 62 dB
**Réponse de fréquence**
**PHONO** Courbe standard RIAA
30 Hz ~ 15 kHz, ±1,0 dB
**TUNER, AUX, TAPE** 20 Hz ~ 20 kHz, ±0,8 dB
10 Hz ~ 50 kHz, –1 dB
**Réglage de la tonalité**
**BASS (graves)** 50 Hz, +10 dB ~ –10 dB
**TREBLE (aigus)** 20 kHz, +10 dB ~ –10 dB
**Correction physiologique (volume à 30 dB)** 50 Hz, +9 dB
**Tension de sortie & impédance REC OUT** 150 mV
**REC/PLAY** 30 mV/82 kΩ
**Equilibrage de canaux (250 Hz ~ 6300 Hz), AUX** ±1,0 dB
**Séparation des canaux AUX 1 kHz** 55 dB
**Niveau du casque et impédance de sortie** 330 mV/330Ω
**Impédance de charge PRINCIPALE ou ELOIGNEE** 4 ~ 16Ω
**PRINCIPAE + ELOIGNEE** 8 ~ 16Ω

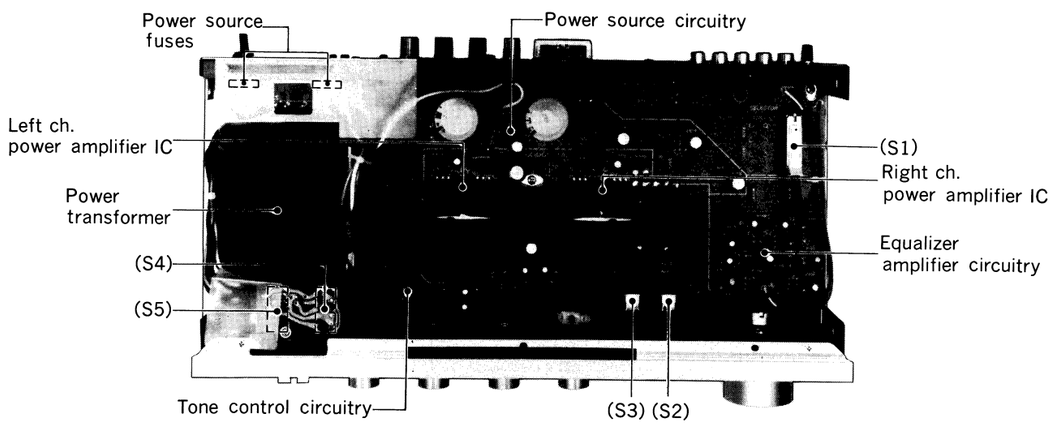
### GENERALITES

**Consommation** 300 W
**Alimentation (50 Hz/60 Hz)** 110V/120V/220V/240V
**Dimensions (L x H x Pr)** 430 x 97 x 240 mm
**Poids** 5,0 kg

## ■ LOCATION OF CONTROLS




## ■ NOTE

The unit is provided with the speaker circuit protection fuses at the right and left channels respectively. The fuse is to prevent the power IC from destruction, should the speaker terminals be short-circuited. Accordingly, if the unit fails to function upon completion of the speaker connections, check the speaker circuit protection fuses first of all for possible blowing.

## ■ HOW TO REMOTE THE CABINET, BOTTOM BOARD AND FRONT PANEL

**How to remove the cabinet**

1. Remove the 4 setscrews ( ① ~ ④ in Fig. 1) on the side and 4 setscrews ( ⑤ ~ ⑧ in Fig. 2) on the back of the cabinet.
2. Shift the cabinet backward and lift it upward. (Arrow Ⓐ in Fig. 1)

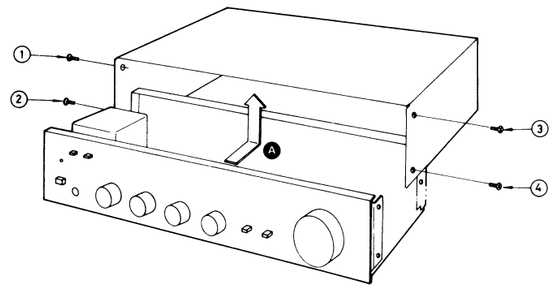



Fig. 1

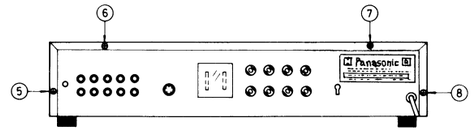



Fig. 2

**How to detach the bottom board**

1. Remove the 4 setscrews ( ⑩ ~ ⑬ in Fig. 3) used to secure bottom board and 4 setscrews ( ⑭ ~ ⑰ in Fig. 3) for the legs. Then the bottom board can be detached.

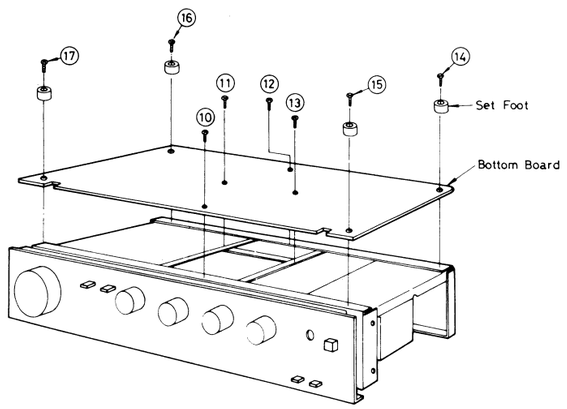



Fig. 3

## ■ NOTE

The unit is provided with the speaker circuit protection fuses at the right and left channels respectively. The fuse is to prevent the power IC from destruction, should the speaker terminals be short-circuited. Accordingly, if the unit fails to function upon completion of the speaker connections, check the speaker circuit protection fuses first of all for possible blowing.

## ■ HOW TO REMOTE THE CABINET, BOTTOM BOARD AND FRONT PANEL

**How to remove the cabinet**

1. Remove the 4 setscrews ( ① ~ ④ in Fig. 1) on the side and 4 setscrews ( ⑤ ~ ⑧ in Fig. 2) on the back of the cabinet.
2. Shift the cabinet backward and lift it upward. (Arrow Ⓐ in Fig. 1)

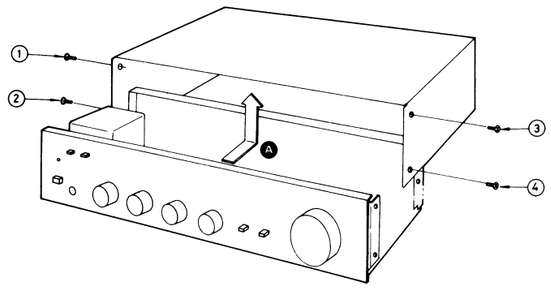



Fig. 1

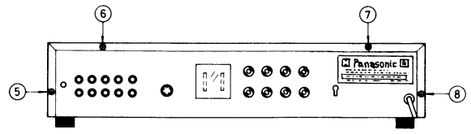



Fig. 2

**How to detach the bottom board**

1. Remove the 4 setscrews ( ⑩ ~ ⑬ in Fig. 3) used to secure bottom board and 4 setscrews ( ⑭ ~ ⑰ in Fig. 3) for the legs. Then the bottom board can be detached.

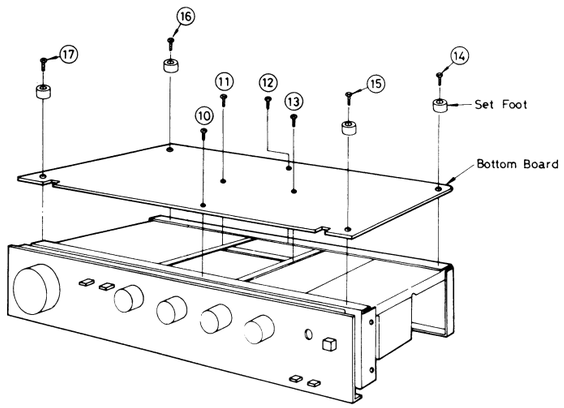
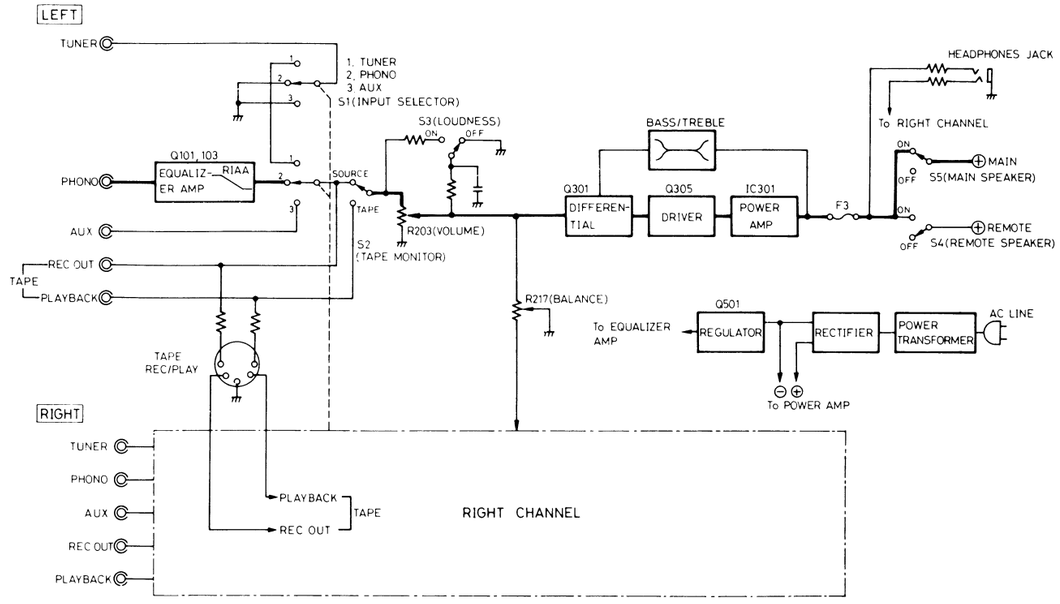



Fig. 3



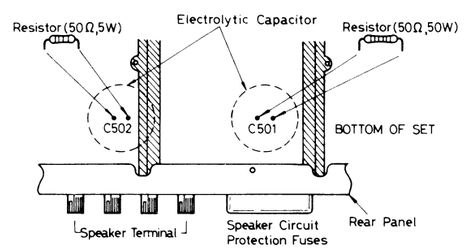


## ■ BLOCK DIAGRAM



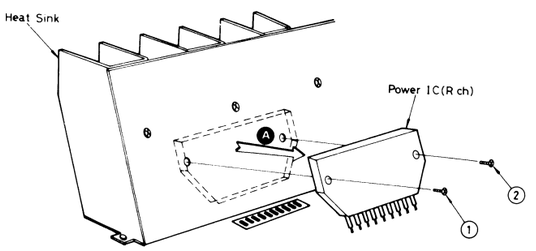

## ■ BEFORE STARTING THE REPAIRING

Before adjusting or repairing, be sure to short-circuit opposite poles of the 6800μF capacitors (C501, 502) with a resistor approximately of "50Ω, 5W" for discharging the charged voltage.
Short-circuiting with a screw driver and the like is not only dangerous, but may destroy transistors and diodes, and should therefore be avoided.




## ■ HOW TO REMOVE THE POWER IC

1. Remove the solder of power IC.
2. Remove the 2 setscrews (①, ② in figure. 5) used to secure the power IC on the heat sink, and then pull the power IC in the direction of arrow Ⓐ.
3. When mounting the power IC, apply silicone compound (or equivalent heat diffuser) to the back of power IC, and then follow the steps 1 ~ 2 reversely.



## ■ REPLACEMENT PARTS LIST (Electric Parts)

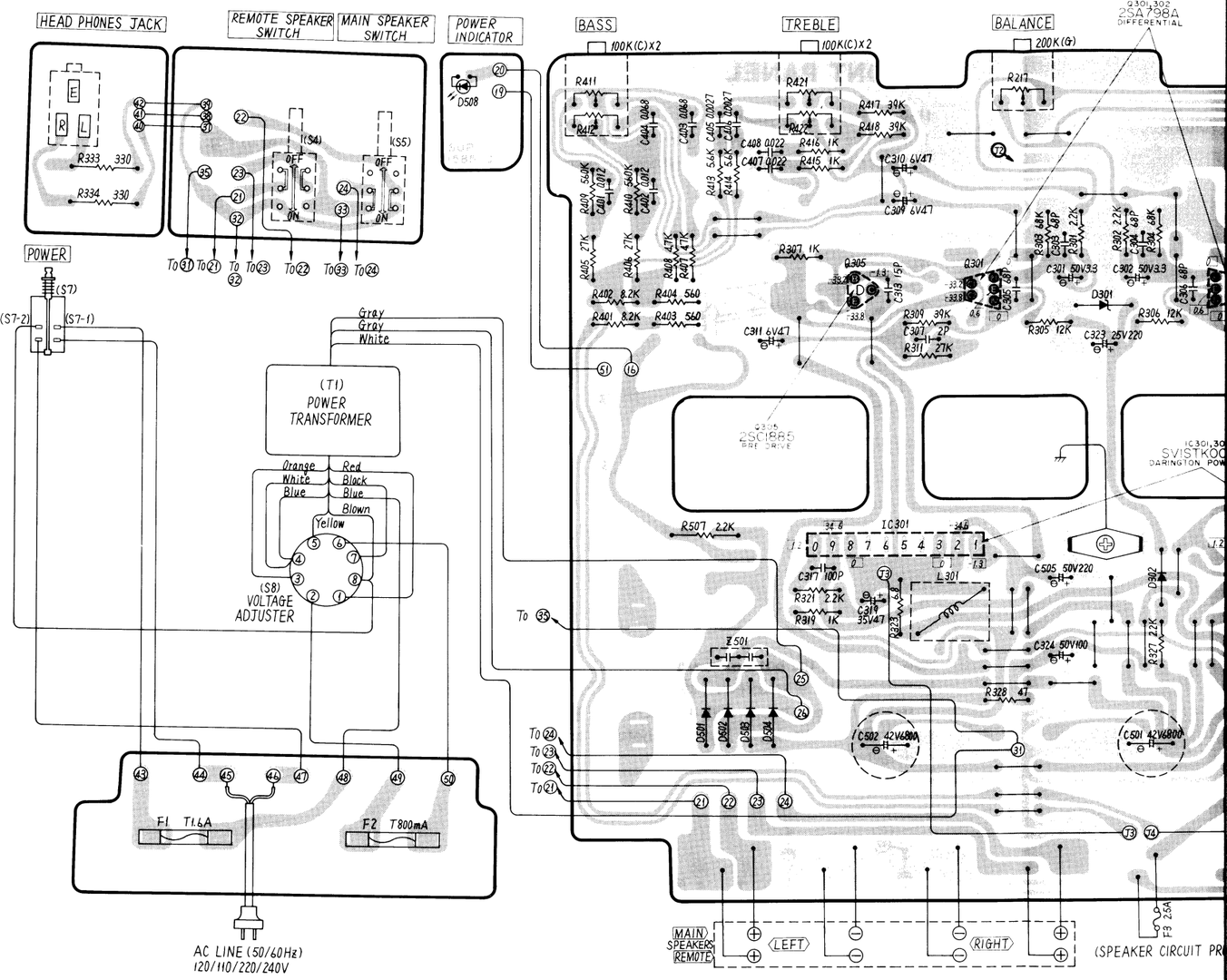
**Notes:** 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts order.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

| Ref. No. | | Part No. | Part Name & Description |
|---|---|---|---|
| **INTEGRATED CIRCUITS** | | | |
| IC301, 302 | | SVISTK0029N | IC, Darington Power Pack |
| **TRANSISTORS** | | | |
| Q101, 102 | | **2SC1328–T** | Transistor, Equalizer Amplifier |
| Q103, 104 | | 2SA1015L–G | Transistor, Equalizer Amplifier (Use in ranks Y or G) |
| Q301, 302 | | **2SA798A–G2** | Transistor, Differential Amplifier |
| Q305, 306 | | 2SC1885–R | Transistor, Pre Drive (Use in ranks Q, R or S) |
| Q501 | | 2SC1815–Y | Transistor, Ripple Filter (Use in ranks Y or O) |
| **DIODES** | | | |
| D101, 302 | | **MA161** | Diode, Bias |
| D301 | | SVDMZ316B | Diode, Zener 16V |
| D501, 502, 503, 504 | ⚠ | SVDS2V20 | Rectifier |
| D508 | | **LN26RP** | Diode, Power Indicator |
| **COILS and TRANSFORMER** | | | |
| L301, 302 | | SLQY15G–3P | Coil, Choke |
| T1 | ⚠ | SLT5M89–1 | Transformer, Power |
| **COMPONENT COMBINATION** | | | |
| Z501 | | EXRFS203ZS | Component Combination, 0.01μF (X2) |
| **FUSES** | | | |
| F1 | ⚠ | XBA2C16TR0 | Fuse, T1.6A (250V) P.T. Primary |
| F2 | ⚠ | XBA2C08TR0 | Fuse, T800mA (250V) P.T. Primary |
| F3, 4 | ⚠ | XBA2C25SS0 | Fuse, 2.5A (250V) Speaker Circuit |
| **SWITCHES** | | | |
| S1 | | ESA2691 | Switch, Input Selector |
| S2, 3 | | SSL121 | Switch, Tape Monitor & Loudness |
| S4, 5 | | SSH263 | Switch, Speakers Selector |
| S7 | ⚠ | ESB70133 | Switch, Power |
| S8 | ⚠ | ESE37200 | Switch, Voltage Adjuster |
| **VARIABLE RESISTORS** | | | |
| R203, 204 | | EWF6LA031BF5 | Volume Control, 250kΩ (B) |
| R217 | | EVHFDA505G25 | Balance Control, 200kΩ (G) |
| R411, 412, 421, 422 | | EWKGSA091C15 | Bass & Treble Control, 100kΩ (C) |
| **RESISTORS** | | | |
| R101, 102 | | **ERD25FJ391** | Carbon, 390Ω, 1/4W, ± 5% |
| R103, 104 | | **ERD25TJ224** | Carbon, 220kΩ, 1/4W, ± 5% |
| R105, 106 | | **ERD25TJ563** | Carbon, 56kΩ, 1/4W, ± 5% |
| R107, 108 | | **ERD25FJ271** | Carbon, 270Ω, 1/4W, ± 5% |
| R109, 110 | | ERD25TSJ223 | Carbon, 22kΩ, 1/4W, ± 5% |
| R111, 112 | | ERD25TSJ153 | Carbon, 15kΩ, 1/4W, ± 5% |
| R113, 114 | | **ERD25FJ821** | Carbon, 820Ω, 1/4W, ± 5% |
| R115, 116 | | **ERD25FJ822** | Carbon, 8.2kΩ, 1/4W, ± 5% |
| R117, 118 | | **ERD25FJ680** | Carbon, 68Ω, 1/4W, ± 5% |
| R119, 120 | | **ERD25TJ224** | Carbon, 220kΩ, 1/4W, ± 5% |
| R121, 122 | | **ERD25TJ123** | Carbon, 12kΩ, 1/4W, ± 5% |
| R123, 124 | | **ERD25TJ104** | Carbon, 100kΩ, 1/4W, ± 5% |
| R127, 128 | | **ERD25FJ102** | Carbon, 1kΩ, 1/4W, ± 5% |
| R129 | | **ERD25TJ274** | Carbon, 270kΩ, 1/4W, ± 5% |
| R130 | | **ERD25TJ333** | Carbon, 33kΩ, 1/4W, ± 5% |
| R131 | ⚠ | **ERD25FJ101** | Carbon, 100Ω, 1/4W, ± 5% |
| R201, 202 | | **ERD25FJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% |
| R205, 206 | | **ERD25TJ393** | Carbon, 39kΩ, 1/4W, ± 5% |
| R207, 208 | | **ERD25TJ104** | Carbon, 100kΩ, 1/4W, ± 5% |
| R209, 210 | | **ERD25TJ394** | Carbon, 390kΩ, 1/4W, ± 5% |
| R211, 212 | | **ERD25TJ124** | Carbon, 120kΩ, 1/4W, ± 5% |
| R213, 214 | | **ERD25FJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% |
| R215, 216 | | **ERD25FJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% |
| R221, 222 | | **ERD25TJ224** | Carbon, 220kΩ, 1/4W, ± 5% |
| R223, 224 | | **ERD25TJ224** | Carbon, 220kΩ, 1/4W, ± 5% |
| R301, 302 | | **ERD25FJ222** | Carbon, 2.2kΩ, 1/4W, ± 5% |
| R303, 304 | | **ERD25TJ683** | Carbon, 68kΩ, 1/4W, ± 5% |
| R305, 306 | | **ERD25TJ123** | Carbon, 12kΩ, 1/4W, ± 5% |
| R307, 308 | ⚠ | **ERD25FJ102** | Carbon, 1kΩ, 1/4W, ± 5% |
| R309, 310 | | **ERD25TJ393** | Carbon, 39kΩ, 1/4W, ± 5% |
| R311, 312 | | **ERD25TJ273** | Carbon, 27kΩ, 1/4W, ± 5% |
| R319, 320 | ⚠ | **ERD25FJ102** | Carbon, 1kΩ, 1/4W, ± 5% |
| R321, 322 | ⚠ | **ERD25FJ222** | Carbon, 2.2kΩ, 1/4W, ± 5% |
| R323, 324 | ⚠ | ERD50FJ6R8 | Carbon, 6.8Ω, 1/2W, ± 5% |
| R327 | ⚠ | **ERD25FJ222** | Carbon, 2.2kΩ, 1/4W, ± 5% |
| R328 | ⚠ | **ERD25FJ470** | Carbon, 47Ω, 1/4W, ± 5% |
| R333, 334 | | **ERG1ANJ331** | Metal Oxide, 330Ω, 1W, ± 5% |
| R337 | ⚠ | **ERD25FJ181** | Carbon, 180Ω, 1/4W, ± 5% |
| R401, 402 | | **ERD25FJ822** | Carbon, 8.2kΩ, 1/4W, ± 5% |
| R403, 404 | | **ERD25FJ561** | Carbon, 560Ω, 1/4W, ± 5% |
| R405, 406 | | **ERD25TJ273** | Carbon, 27kΩ, 1/4W, ± 5% |
| R407, 408 | | **ERD25FJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% |
| R409, 410 | | **ERD25TJ564** | Carbon, 560kΩ, 1/4W, ± 5% |
| R413, 414 | | **ERD25FJ562** | Carbon, 5.6kΩ, 1/4W, ± 5% |
| R415, 416 | | **ERD25FJ102** | Carbon, 1kΩ, 1/4W, ± 5% |
| R417, 418 | | **ERD25TJ393** | Carbon, 39kΩ, 1/4W, ± 5% |
| R501 | ⚠ | **ERD25FJ101** | Carbon, 100Ω, 1/4W, ± 5% |
| R502 | ⚠ | **ERD25FJ102** | Carbon, 1kΩ, 1/4W, ± 5% |
| R503 | | **ERD25TJ153** | Carbon, 15kΩ, 1/4W, ± 5% |
| R504 | | **ERD25TJ273** | Carbon, 27kΩ, 1/4W, ± 5% |
| R505 | | **ERD25FJ821** | Carbon, 820Ω, 1/4W, ± 5% |
| R507 | | **ERG1ANJ222** | Metal Oxide, 2.2kΩ, 1W, ± 5% |
| **CAPACITORS** | | | |
| C101, 102 | | **ECEA50M3R3R** | Electrolytic, 3.3μF, 50V |
| C103, 104 | | ECCD1H101K | Ceramic, 100pF, 50V, ±10% |
| C105, 106 | | ECKD1H102MD | Ceramic, 0.001μF, 50V, ±20% |
| C107, 108 | | **ECEA1AS101** | Electrolytic, 100μF, 10V |
| C109, 110 | | ECCD1H220K | Ceramic, 22pF, 50V, ±10% |
| C111, 112 | | **ECEA1AS470** | Electrolytic, 47μF, 10V |
| C113, 114 | | ECQM1H223KZ | Polyester, 0.022μF, 50V, ±10% |
| C115, 116 | | ECQM1H682KZ | Polyester, 0.0068μF, 50V, ±10% |
| C117, 118 | | **ECEA50MR47R** | Electrolytic, 0.47μF, 50V |
| C121 | | **ECEA1AS101** | Electrolytic, 100μF, 10V |
| C122 | | **ECEA1VS221** | Electrolytic, 220μF, 35V |
| C201, 202 | | ECCD1H101K | Ceramic, 100pF, 50V, ±10% |
| C203, 204 | | ECQM1H473KZ | Polyester, 0.047μF, 50V, ±10% |
| C301, 302 | | **ECEA50Z3R3** | Electrolytic, 3.3μF, 50V |
| C303, 304 | | ECCD1H680K | Ceramic, 68pF, 50V, ±10% |
| C305, 306 | | ECCD1H680K | Ceramic, 68pF, 50V, ±10% |
| C307, 308 | | ECCD1H020C | Ceramic, 2pF, 50V, ±0.25pF |
| C309, 310 | | **ECEA1AS470** | Electrolytic, 47μF, 10V |
| C311, 312 | | **ECEA1AS470** | Electrolytic, 47μF, 10V |
| C313, 314 | | ECCD2H150K | Ceramic, 15pF, 500V, ±10% |
| C317, 318 | | ECCD2H101K | Ceramic, 100pF, 500V, ±10% |
| C319, 320 | | **ECEA1HS470** | Electrolytic, 47μF, 50V |
| C321, 322 | | ECQM1H473KZ | Polyester, 0.047μF, 50V, ±10% |
| C323 | | **ECEA1ES221** | Electrolytic, 220μF, 25V |
| C324 | | **ECEA1HS101** | Electrolytic, 100μF, 50V |
| C325 | | **ECEA1VS101** | Electrolytic, 100μF, 35V |
| C401, 402 | | ECQM1H123KZ | Polyester, 0.012μF, 50V, ±10% |
| C403, 404 | | ECQM1H683KZ | Polyester, 0.068μF, 50V, ±10% |
| C405, 406 | | ECQM1H272KZ | Polyester, 0.0027μF, 50V, ±10% |
| C407, 408 | | ECQM1H223KZ | Polyester, 0.022μF, 50V, ±10% |
| C501, 502 | | ECET42R682S | Electrolytic, 6800μF, 42V |
| C503 | | **ECEA1VS101** | Electrolytic, 100μF, 35V |
| C505 | | **ECEA1HS221** | Electrolytic, 220μF, 50V |





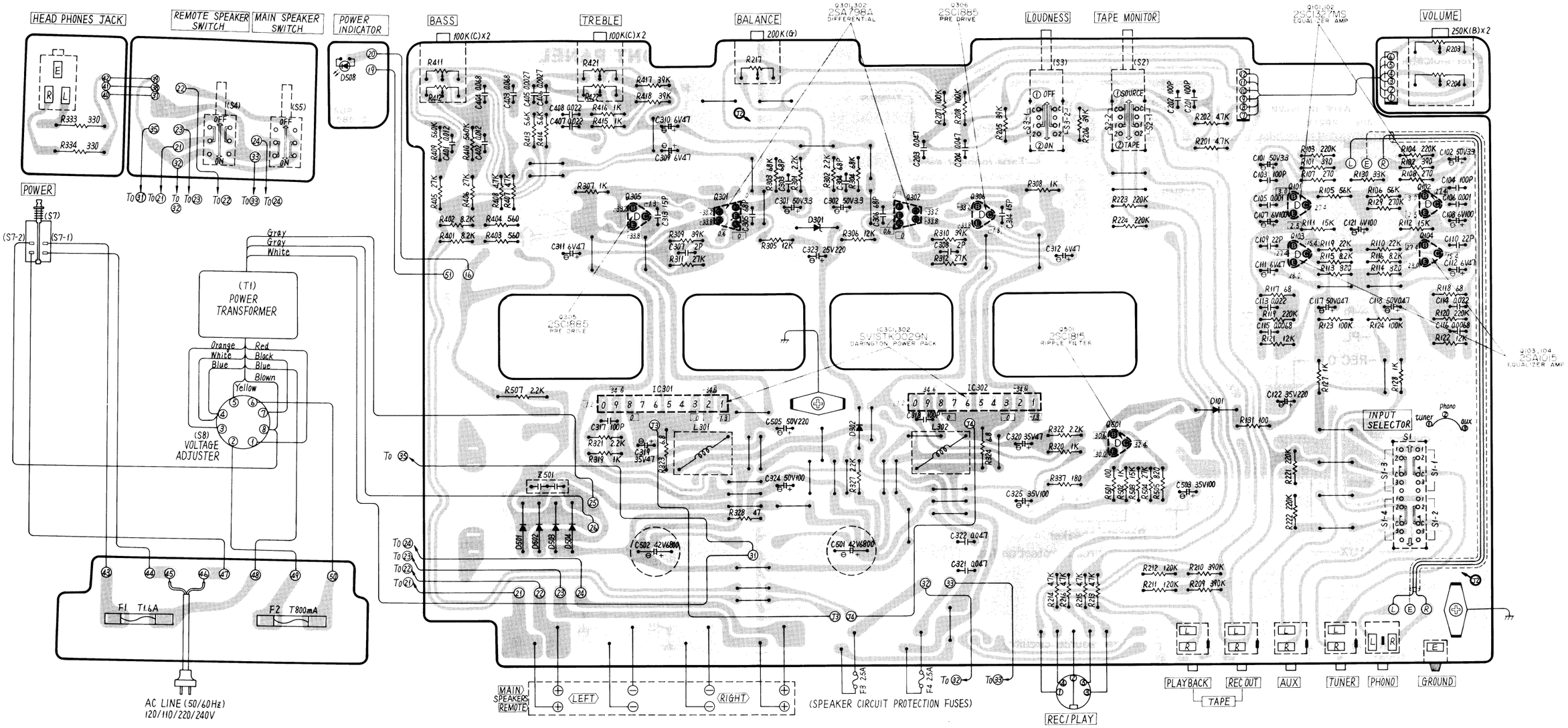
## ■ PRINTED CIRCUIT BOARD WIRING VIEW




| Ref. No. | Product Part No. | Standardized Part No. |
|---|---|---|
| Q101, 102 | 2SC1327 | 2SC1328-T |
| D101, 302 | MA150 | MA161 |

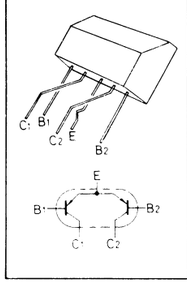
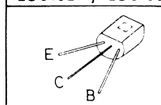
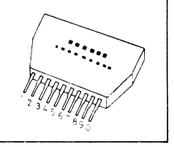
## ■ PRINTED CIRCUIT BOARD WIRING VIEW

Earth (Ground) Lines

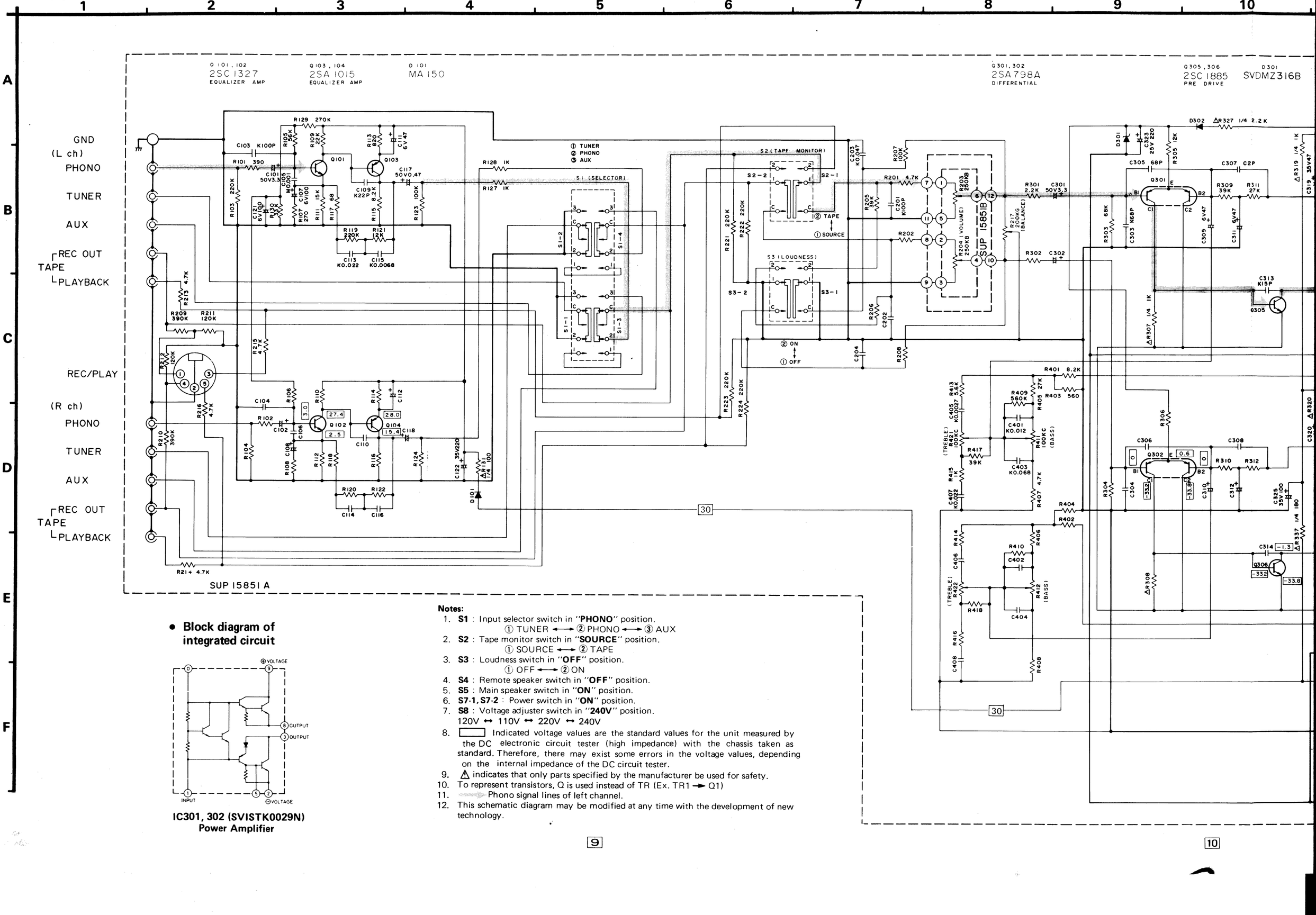



| Ref. No. | Product Part No. | Standardized Part No. |
|---|---|---|
| Q101, 102 | 2SC1327 | 2SC1328-T |
| D101, 302 | MA150 | MA161 |

- **Terminal guide of transistor and IC**

| 2SA798A | 2SA1015 , 2SC1815<br>2SC1327 , 2SC1885 |
|---|---|
|  |  |
| | SVISTK0029N |
| |  |

# ■ SCHEMATIC DIAGRAM




## • Block diagram of integrated circuit

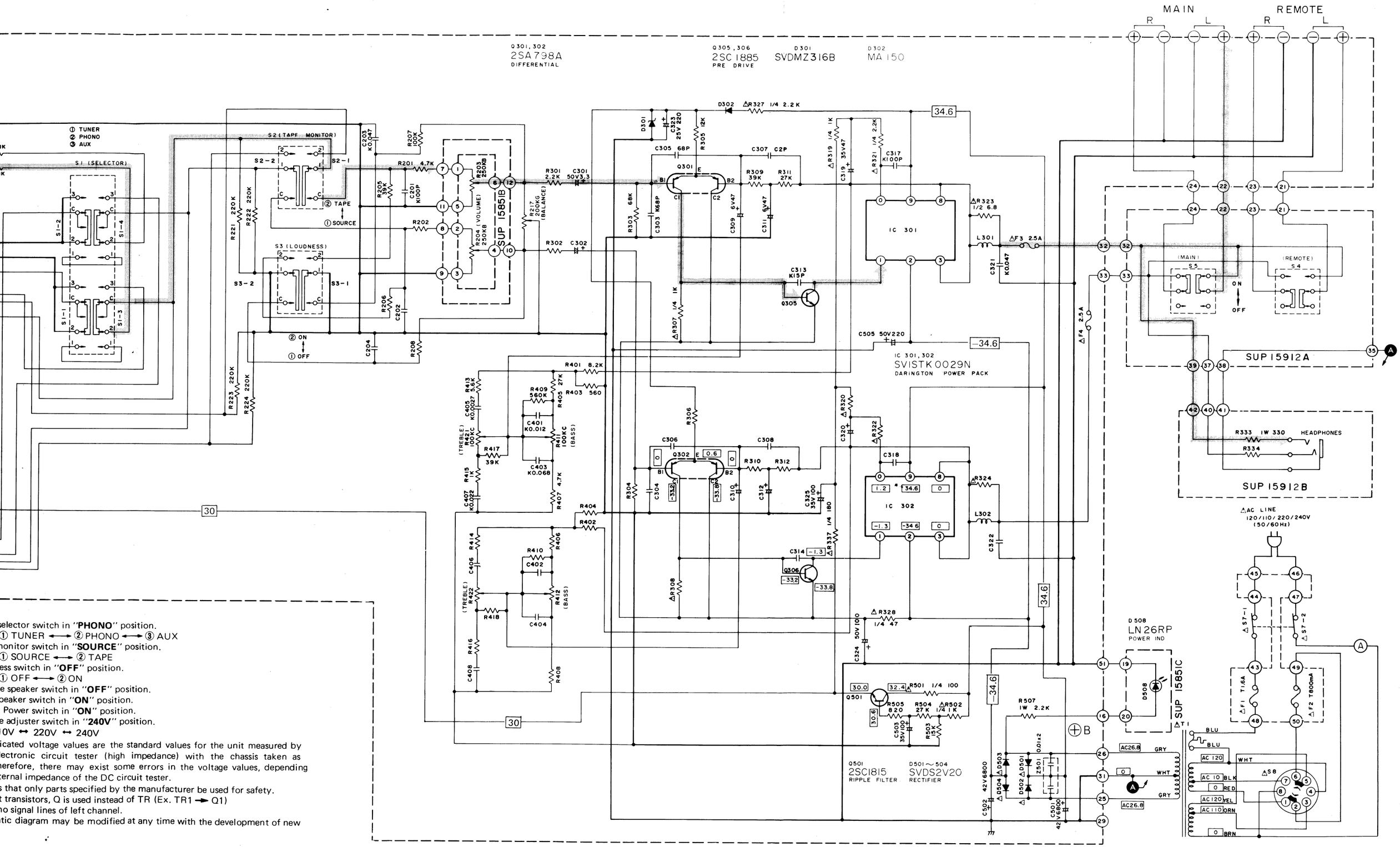



**IC301, 302 (SVISTK0029N)**
**Power Amplifier**

**Notes:**

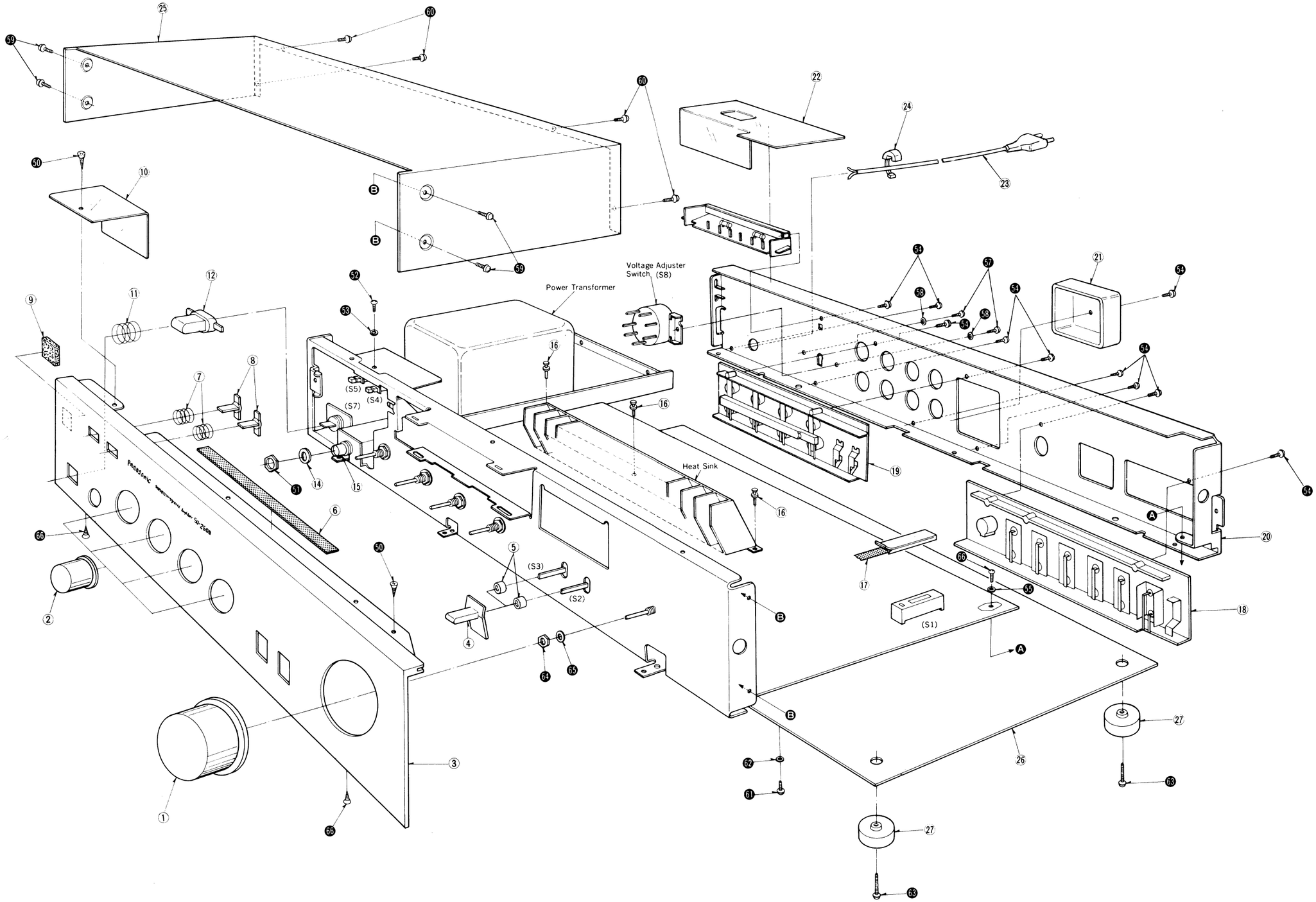
1. **S1** : Input selector switch in "**PHONO**" position.
   ① TUNER ⟷ ② PHONO ⟷ ③ AUX
2. **S2** : Tape monitor switch in "**SOURCE**" position.
   ① SOURCE ⟷ ② TAPE
3. **S3** : Loudness switch in "**OFF**" position.
   ① OFF ⟷ ② ON
4. **S4** : Remote speaker switch in "**OFF**" position.
5. **S5** : Main speaker switch in "**ON**" position.
6. **S7-1, S7-2** : Power switch in "**ON**" position.
7. **S8** : Voltage adjuster switch in "**240V**" position.
   120V ↔ 110V ↔ 220V ↔ 240V
8. ▭ Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
9. ⚠ indicates that only parts specified by the manufacturer be used for safety.
10. To represent transistors, Q is used instead of TR (Ex. TR1 ➞ Q1)
11. ▬▬ Phono signal lines of left channel.
12. This schematic diagram may be modified at any time with the development of new technology.

5 6 7 8 9 10 11 12 13 14




selector switch in "**PHONO**" position.
① TUNER ⟷ ② PHONO ⟷ ③ AUX
monitor switch in "**SOURCE**" position.
① SOURCE ⟷ ② TAPE
ess switch in "**OFF**" position.
① OFF ⟷ ② ON
e speaker switch in "**OFF**" position.
peaker switch in "**ON**" position.
Power switch in "**ON**" position.
e adjuster switch in "**240V**" position.
10V ↔ 220V ↔ 240V
icated voltage values are the standard values for the unit measured by
lectronic circuit tester (high impedance) with the chassis taken as
herefore, there may exist some errors in the voltage values, depending
ternal impedance of the DC circuit tester.
s that only parts specified by the manufacturer be used for safety.
t transistors, Q is used instead of TR (Ex. TR1 → Q1)
no signal lines of left channel.
tic diagram may be modified at any time with the development of new

## ■ EXPLODED VIEWS



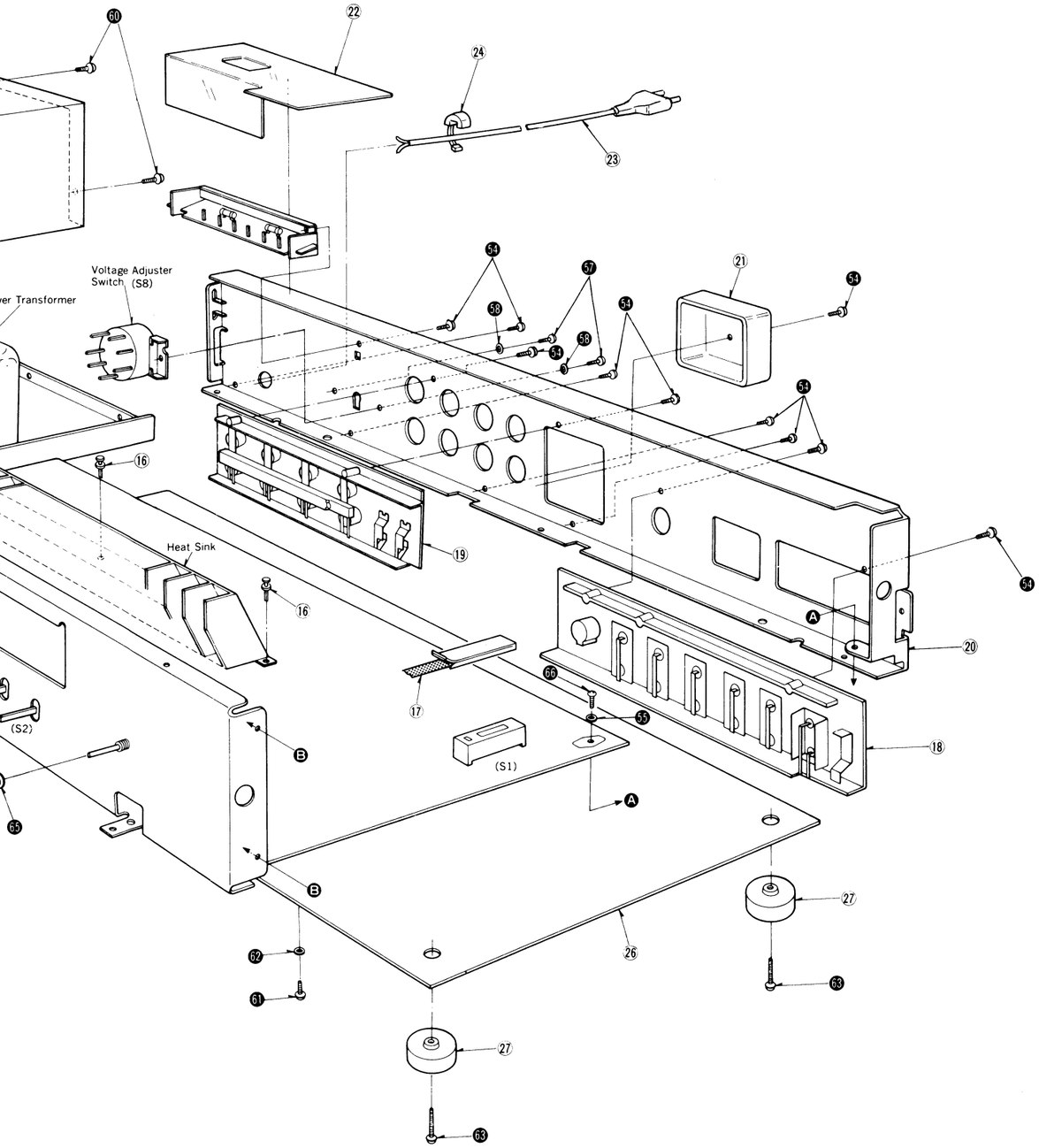

## ■ REPLACEM

**Notes:** 1. Part num
Please us
2. ⚠ indi

| Ref. No. | | |
|---|---|---|
| | | CA |
| 1 | | SB |
| 2 | | SB |
| 3 | | SG |
| 4 | | SB |
| 5 | | SN |
| 6 | | SH |
| 7 | | SU |
| 8 | | SB |
| 9 | | SH |
| 10 | | SM |
| 11 | | SU |
| 12 | | SB |
| 14 | | SN |
| 15 | | XC |
| 16 | | SH |
| 17 | | ES |
| 18 | | SJ |
| 19 | | SJ |
| 20 | | SG |
| 21 | | SU |
| 22 | | SM |
| 23 | ⚠ | RJ |
| 23 [XE] only | ⚠ | RJ |
| 24 | | SF |
| 24 [XE] only | | SF |
| 25 | | SK |
| 26 | | SY |
| 27 | | SK |
| 50 | | XT |

**Note :** (XE) is avai

## ■ PACKINGS



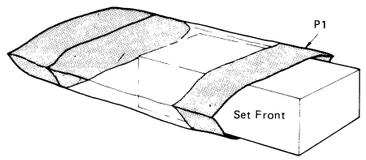

## ■ REPLACEMENT PARTS LIST (Cabinet and Chassis Parts)

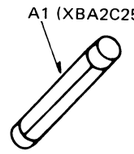
**Notes:** 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts order.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

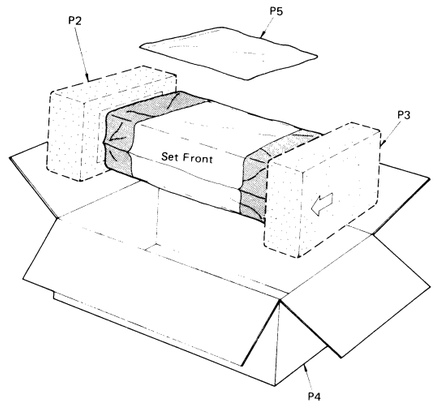
| Ref. No. | | Part No. | Part Name & Description |
|---|---|---|---|
| **CABINET and CHASSIS PARTS** | | | |
| 1 | | SBN859–1 | Knob, Volume Control |
| 2 | | SBN861 | Knob, Bass, Treble, Balance & Input Selector |
| 3 | | SGWU2600E | Panel, Front Ass'y |
| 4 | | SBD19–3 | Knob, Loudness, Tape Monitor Switch |
| 5 | | SNW421–1 | Spacer, Loudness, Tape Monitor Switch |
| 6 | | SHS6101–1 | Fiber, Front Panel |
| 7 | | SUS123–1 | Spring, Push Switch |
| 8 | | SBC211–1 | Button, Speaker Switch |
| 9 | | SHR9491 | Spacer, LED Power Indicator |
| 10 | | SMX267 | Cover, Power Switch |
| 11 | | SUS145 | Spring, Power Switch |
| 12 | | SBC209–2 | Button, Power Switch |
| 14 | | SNE59–1 | Washer, Headphones Jack M'tg |
| 15 | | XCJ6P21B–A | Jack, Headphones |
| 16 | | SHR401–1 | Latch, Heat Sink M'tg |
| 17 | | ESA338 | Remote Switch, Input Selector |
| 18 | | SJF3025–3 | Terminal, Input |
| 19 | | SJF8013–1 | Terminal, Speakers |
| 20 | | SGP1750–1E | Rear Panel |
| 21 | | SUV337 | Cover, Speaker Terminal |
| 22 | | SMX269–1 | Cover, Power Fuses |
| 23 | ⚠ | RJA23ZC | AC Cord, with Plug (Except product for [XE]) |
| 23 [XE] only | ⚠ | RJA45ZC | AC Cord |
| 24 | | SFSR4N4 | Bushing, AC Cord (Except product for [XE]) |
| 24 [XE] only | | SFSR5N4 | Bushing, AC Cord |
| 25 | | SKA10679K | Cabinet |
| 26 | | SYU187–2 | Bottom Board |
| 27 | | SKL225 | Foot, Set |
| **SCREWS and WASHERS** | | | |
| ㊿ | | **XTS3+8B** | Screw, Front Panel M'tg |
| ㊾ | | **XNS12** | Nut, Headphones Jack M'tg |
| ㊽ | | **XTN3+8B** | Screw, Speaker Selector Switch Printed Circuit Board M'tg |
| ㊼ | | **XWG3B** | Washer |
| ㊻ | | **XTB3+8BFZ** | Screw, Terminals, Fuse Cover, Power Fuses Printed Circuit Board and Rear Panel M'tg |
| ㊺ | | **XWC3B** | Washer |
| ㊹ | | **XSN3+6BVS** | Screw, Voltage Adjuster Switch M'tg |
| ㊸ | | **XWA3BFZ** | Washer |
| ㊷ | | **XTB4+8BFZ** | Screw, Cabinet M'tg |
| ㊶ | | **XTB3+8BFZ** | Screw, Cabinet M'tg |
| ㊵ | | **XTN3+8B** | Screw, Bottom Board M'tg |
| ㊴ | | **XWG3** | Washer |
| ㊳ | | **XTB3+12BFN** | Screw, Set Feet M'tg |
| ㊲ | | **XNS8** | Nut, Volume, Selector, Balance, Treble & Bass M'tg |
| ㊱ | | **XWV8** | Washer |
| ㉟ | | **XTB3+8BFN** | Screw, Front Panel and P.C.B. M'tg |
| **ACCESSORY** | | | |
| A1 | ⚠ | XBA2C25SS0 | Fuse, 2.5A (250V) Speaker Circuit |
| **PACKING PARTS** | | | |
| P1 | | SPP501 | Polyethylene Bag |
| P2 | | SPS2265 | Pad, Left Side |
| P3 | | SPS2267 | Pad, Right Side |
| P4 | | SPG2209 | Carton Box |
| P5 | | SQF10261 | Instructions Book, Printed Matter (Except product for [XE]) |
| P5 [XE] only | | SQF10259 | Instructions Book, Printed Matter |

**Note :** (XE) is available in United Kingdom.

## ■ PACKINGS AND ACCESSORIES



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